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Family Name	
Given Names	
Student Number	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Teaching Period	Semester 1, 2017

FINAL EXAMINATION	DURATION
HIT164 – Computing Fundamentals	
	Reading Time: 10 minutes
	Writing Time: 180 minutes

INSTRUCTIONS TO CANDIDATES

Section A This section is compulsory

Total No of marks for this section : 10

Section B

Short Answer Questions

Answer any Ten (10) out of the Twelve (12) questions.

Total No of marks for this section : 50

EXAM CONDITIONS

You may begin writing from the commencement of the examination session. The reading time indicated above is provided as a guide only.

This is a CLOSED BOOK examination

No calculators are permitted

No handwritten notes are permitted

No dictionaries are permitted

ADDITIONAL AUTHORISED MATERIALS	EXAMINATION MATERIALS TO BE SUPPLIED
No additional printed material is permitted	1 x 16 Page Book

**THIS EXAMINATION IS PRINTED
DOUBLE-SIDED.**

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Section A
Long Answer Questions and it is compulsory.
Total No of Marks for this section: 10

This section should be answered on the Answer Sheet provided. Please ensure that your name and student number have been written on the Answer sheet and place in the completed answer Booklet.

Marks for each question are indicated. Suggested Time allocation for Section A: 40 mins

Question 1

The Web contains a vast amount of extremely useful information. Some content, however, is more debatable and, in fact may be extremely harmful. For example – how to make a bomb, commit suicide etc., if the website instructs visitors how to perform an illegal act, should the site's creators be criminally liable if a visitor carries out those instructions?

Who do you think is responsible for preventing potentially harmful information from being shared in the Internet? Where do we draw the line between freedom of speech and national or personal safety?

Marks : 10

Section B
Short Answer Questions
Total No of Marks for this section: 50
Answer any Ten (10) out of the Twelve (12) questions.

This section should be answered in the Answer Booklet provided.

Marks for each question are indicated. Suggested Time allocation for Section B: 140 mins

Question 2

As the Web moves away from HTML and towards XML, Web developers should consider how to respond to this changing environment. XHTML, being XML that works like HTML, is an important step to consider and thus the reason for this Best Practice. How would you make your web page XHTML Compliant?

Marks : 5

Question 3

Explain the term Virtualization and give any five advantages to an organization that uses it

Marks : 5

Question 4

Discuss the relationship between System Clock and the Machine Cycle, and how a CPU processes a single piece of microcode.

Marks : 5

Question 5

Discuss the difference between Hub, Switch and Wireless access point with relevant examples.

Marks : 5

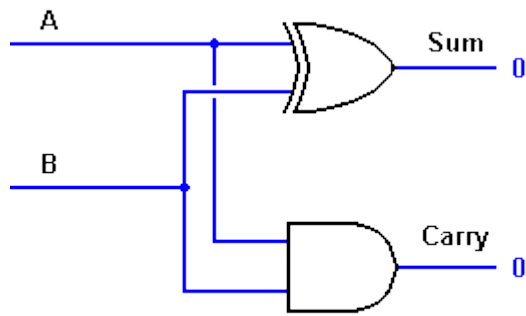
Question 6

Explain in detail about Spyware, Malware and Adware

Marks : 5

Question 7

Given below diagram is a half adder circuit. Complete the table (on the answer sheet NOT on the Question paper) based on the inputs A and B



Ref : <http://www.circuitstoday.com/half-adder-and-full-adder>

Input	Input	Output	
A	B	Sum	Carry
0	0		
1	0		
0	1		
1	1		

Marks : 5

Question 8

Backups are critical part of any business and it's more critical for any individual too. Discuss the available options to back-up the organisational data.

Marks : 5

Question 9

The choice of an appropriate input device for a product is often based on the device and the target market. Suppose that you are developing an Internet appliance being marketed to senior citizens. What type of hardware would you select as the primary device and why?

Marks : 5

Question 10

People send their digital photos over the Internet in different ways.

Should individuals be concerned about sending their personal photos over the Internet? List down the possible security risks of sending the photos over the Internet.

Marks : 5

Question 11

A database is a collection of related data. Databases are organized in a unique way. List three consistent parts with examples that are used to organize this data.

Marks : 5

Question 12

State three types of Flash memory storage systems and state one advantage they have over conventional hard drives.

Marks : 5

Question 13

List down any five differences between an open source software and proprietary /commercial software.

Marks : 5

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